**DATA SHEET**

# CISCO MEDIA CONVERGENCE SERVER 7815I-3000

## PRODUCT OVERVIEW

**Figure 1**
Cisco MCS 7815I-3000



### Performance

Using a single Intel Pentium 4 3.06-GHz processor with 1 GB of synchronous dynamic random-access memory (SDRAM), the Cisco® Media Convergence Server (MCS) 7815I-3000 is a robust server platform in a tower form factor designed to support today's IP communications applications.
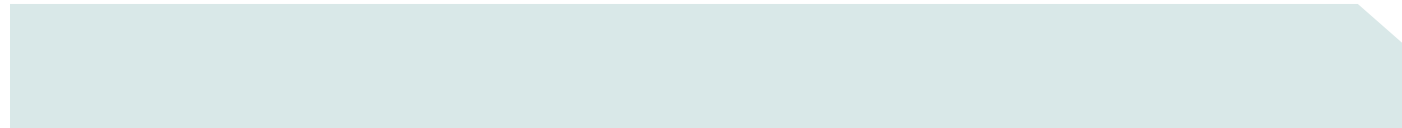
### Flexibility

The Cisco MCS 7815I-3000 can run any of the following Cisco Systems® applications:

- Cisco CallManager

- Cisco IP Contact Center Express Edition

- Cisco IP Interactive Voice Response (IP IVR)

- Cisco Unity™ software

- Cisco Unity Bridge

## APPLICATIONS

### Cisco CallManager

The Cisco CallManager is the call-processing software component of a Cisco IP Communications network. Cisco CallManager extends enterprise telephony features to packet telephony devices such as IP phones, voice-over-IP (VoIP) gateways, and IP-based multimedia applications. An important benefit of Cisco CallManager is that special-purpose voice-processing hardware is not required. Cisco CallManager enables supplementary services to be made available on IP phones and gateways. These features include hold, transfer, forward, conference, multiple-line appearances, automatic route selection, speed dial, and last-number redial.

Enhancing Cisco CallManager capabilities is a simple matter of upgrading software, thereby saving you expensive hardware upgrades. In addition, Cisco CallManager allows all phones, gateways, and applications to be distributed across an IP network, providing a single distributed, virtual telephony network. Each Cisco MCS 7815I-3000 supports up to 300 Cisco CallManager users, depending upon the N+1 redundancy configuration. Cisco CallManager software licensing is available for the Cisco MCS 7815I-3000 to support either 100 phones or up to 300 phones.

## Availability

Cisco CallManager N+1 redundancy provides continued operation of the IP phone network when a Cisco MCS 7815I-3000 is off line in a redundant MCS configuration. The ability to cluster call-processing servers illustrates the leading-edge architecture of Cisco AVVID. Cisco has created a redundancy package that can be ordered using a single part number that contains two Cisco MCS 7815I-3000 servers and two Cisco CallManager DVD installation sets. This package is available at a reduced price when compared to purchasing the components separately and is only to be used to provide a redundant configuration.

## System Backup and Restore

Every Cisco MCS 7815I-3000 includes custom backup and restore functions that are configured when you run the automatic installation software. You specify a file location on another server on your IP network, and the Cisco MCS 7815I-3000 does the rest. All relevant data files are stored nightly at 2 a.m. (or another time you choose) on another networked file server. In case of a failure, you can run the restore routine, specify the backup file location, and be back online.

**IP Telephony Starter Kit**

Cisco offers an IP communications starter kit to allow a customer to experience Cisco IP Communications before deploying it on a greater scale. The Cisco MCS 7815I-3000, Cisco CallManager software, and five Cisco IP Phone 7960G units are included in the starter kit.

## Model

Cisco MCS 7815I-3000 model number MCS-7815I-3.0-IPC1 is equipped with a single Pentium 4 3.0-GHz processor, 1 GB of SDRAM and one 80-GB serial Advanced Technology Attachment (ATA) hard disk.

For more information about Cisco CallManager, visit: http://www.cisco.com/en/US/products/sw/voicesw/ps556/index.html

**Cisco Emergency Responder Software**

Cisco Emergency Responder enables emergency agencies to identify the location of 911 callers and eliminates the need for any administration when phones or people move from one location to another. Enhancing the existing E-911 functions of Cisco CallManager, the Cisco Emergency Responder real-time location-tracking database and improved routing capabilities direct emergency calls to the appropriate public safety answering point based on a caller's location.

When coupled with Cisco CallManager, Cisco Emergency Responder surpasses traditional private branch exchange (PBX) capabilities by introducing zero-cost user or phone moves and changes and dynamic tracking of user and phone locations for E-911 safety and security purposes.

## Model

The Cisco MCS 7815I-3000 model number MCS-7815I-3.0-IPC1 is equipped with a single Pentium 4 3.0-GHz processor, 1 GB of SDRAM and one 80-GB serial ATA hard disk.

For more information about Cisco Emergency Responder, visit: http://www.cisco.com/go/cer/

**Cisco IP Contact Center Express Edition**

Cisco IP Contact Center (IPCC) Express Edition offers an integrated, full-featured solution for managing customer voice contacts with all the benefits of the converged Cisco IP Telephony architecture. Cisco IPCC Express Edition is a "contact center in a box" with full automatic call distributor (ACD), IVR, and computer telephony integration (CTI) functions for both formal and informal contact centers, delivering sophisticated call routing, management, and administration features for departmental, enterprise branch, or small- to medium-sized enterprise customer-care needs. Cisco IPCC Express is designed to enhance the efficiency of any contact center organization by simplifying business application integration, easing agent administration, increasing agent flexibility, and providing efficiency gains in network hosting. These features reduce business costs and improve customer response for your contact center. The solution is tightly integrated with Cisco AVVID and Cisco CallManager.

## Model

Cisco MCS 7815I-3000 model number MCS-7815I-3.0-CC1 is equipped with a single Pentium 4 3.0-GHz processor, 1 GB of SDRAM and one 80-GB serial ATA hard disk.

For more information about Cisco IPCC Express Edition, visit: http://www.cisco.com/en/US/products/sw/custcosw/ps1846/ps4918/index.html

**Cisco IP Interactive Voice Response**

Cisco IP Interactive Voice Response (IVR) offers a full-feature IVR solution based on IP voice-response unit (VRU) technology. Cisco IP IVR offers a robust set of IVR capabilities, including database integration; automatic speech recognition; text-to-speech capability; Voice Extensible Markup Language (VXML); Extensible Markup Language (XML) and HTTP integration; and Cisco e-notification services for automated e-mail, paging, or fax notifications. The solution is tightly integrated with Cisco AVVID and Cisco CallManager.

## Model

Cisco MCS 7815I-3000 model number MCS-7815I-3.0-CC1 is equipped with a single Pentium 4 3.0-GHz processor, 1 GB of SDRAM and one 80-GB serial ATA hard disk.

For more information about Cisco IP IVR, visit: http://www.cisco.com/en/US/products/sw/custcosw/ps3651/index.html

**Cisco Unity**

Cisco Unity—an integral component of the Cisco IP Communications system—is the premier unified communications solution for enterprise-scale organizations. It delivers powerful unified messaging (e-mail, voice, and fax messages sent to one inbox) and intelligent voice messaging (full-featured voice mail providing advanced functions) to improve communications, boost productivity, and enhance customer service capabilities across your organization. Cisco Unity provides advanced, convergence-based communication services and integrates them with the desktop applications you use every day. With Cisco Unity Unified Messaging, you can listen to your e-mail over the telephone, check voice messages from the Internet, and—when integrated with a supported third-party fax server—forward faxes to wherever you are. Cisco Unity Voice Messaging features robust automated attendant functions that include intelligent routing and easily customizable call screening and message notification options.

MCS-7815I-3.0-ECS1 is the model of the Cisco MCS 7815I-3000 designed for the Cisco Unity application. This model supports up to 499 voice messaging or unified messaging users. This model also supports the Cisco Unity Bridge application, which links a Cisco Unity system to an Octel voice-mail system and allows messaging between subscribers on a Cisco Unity messaging system and an Octel system.

For more information about Cisco Unity, visit: http://www.cisco.com/en/US/products/sw/voicesw/ps2237/index.html

For more information about Cisco Unity Bridge, visit: http://www.cisco.com/en/US/products/sw/voicesw/ps2237/ps5454/index.html

## PRODUCT SPECIFICATIONS

Table 1 contains product specifications, and Table 2 provides ordering information for the Cisco MCS 7815I-3000 components.

**Table 1.** Product Specifications

| Description | Specification |
|---|---|
| Processor | Intel Pentium 4 |
| Processor internal clock speed | 3060 MHz |
| Processor Layer 2 cache | 1 MB |
| Basic input/output system | Flash |
| Memory installed | 1024 MB (2x512) |
| Memory maximum | 4096 MB |
| Memory bus clock | 200 MHz |
| Memory technology | PC 2700 double data rate (DDR) SDRAM |
| Total RAM slots | 4 |
| Floppy disk | 3.5 in. |
| Floppy read/write capacity | 1.44 MB/720 KB |
| Floppy drives supported | 1 |
| Floppy drive rotation | 300 |
| Floppy transfer rate | 500/250 Kbps |
| Floppy bytes /sector | 512 |
| Floppy sectors/track | 18/9 |
| Floppy tracks/side | 80/80 |
| Floppy track-to-track access time | 3/6 milliseconds (ms) |
| Floppy average access times | 174/94 ms |
| Floppy read/write heads | 2 |
| DVD interface | Integrated Drive Electronics (IDE) |
| DVD single layer read speed | 6.7 to 16x (Full CAV) |
| DVD dual layer read speed | 5 to 12x (Full CAV) |
| DVD video | 3.3 to 8x (Full CAV) |
| DVD-R—3.95 GB | 1 to 2.3x (Full CAV) |
| DVD-R—4.7 GB | 1 to 2.3x (Full CAV) |
| DVD-RAM—2.5 GB | 2 x ZCLV |
| DVD-RAM—4.7 GB | 2 x ZCLV |
| CD-ROM/CD-R | 17 to 40x (Full CAV) |
| CD-RW | 10 to 24x (Full CAV) |
| CD-I/video CD | 4.3 to 10x (Full CAV) |
| CD-DA (DAE) | 12x CLV |
| CD-DA (Audio out) | 4 to 10x (Full CAV) |
| Number of hard disks installed | 1 |
| Installed hard disk size | 80 GB |
| Hard disk average seek time | Less than 9 ms |
| Hard disk average latency | 4.2 ms |

| Description | Specification |
|---|---|
| **Hard disk hot-swappable bays** | 0 |
| **Hard disk controller** | ICH-S serial ATA control on motherboard |
| **Hard disk type** | Serial ATA easy swap |
| **Maximum installable hard drive capacity** | 480 GB |
| **Network Interface Controller (NIC)** | Single onboard 10/100/1000-Mbps full duplex |
| **NIC connector** | RJ-45 |
| **NIC 10BASE-T cable support** | Categories 3,4, or 5 unshielded twisted-pair (UTP) (2 or 4 pair) up to 328 feet (100 meters) |
| **NIC 100BASE-TX cable support** | Category 5 UTP (2 pair) up to 328 ft (100 m) |
| **NIC 1000BASE-T cable support** | Category 5 UTP, 5E UTP, 6 UTP (2 pair) up to 328 ft (100 m) |
| **Graphics type** | 2D |
| **Graphics chipset** | ATI 7000M |
| **Graphics data width** | 128 |
| **Video RAM type** | SDRAM |
| **Video RAM installed** | 16 MB |
| **Video RAM maximum** | 16 MB |
| **Maximum video resolution** | 1600 x 1200 |
| **Maximum colors** | 32 bpp true color (16M) |
| **Graphics bus interface** | PCI |
| **Serial ports** | 2 |
| **Parallel ports** | 1 |
| **USB v1.1 ports** | 4 |
| **Keyboard port** | 1 |
| **Mouse port** | 1 |
| **Audio ports** | None |
| **Power-on password security** | Yes |
| **Selectable boot device security** | Yes |
| **U-Bolt Tie-Down security** | Yes |
| **Flash erasable programmable read-only memory (EPROM) write protection security** | Yes |
| **Cover key lock security** | Yes |
| **Total expansion slots (free) and type** | 5(5) 32-bit PCI at 33 MHz |
| **Accessible 3.5-in. bays (free) and height** | 3(2) SL |
| **Non-accessible 3.5-in. bays (free) and height** | 2(2) SL |
| **Accessible 5.25-in. bays (free) and height** | 2(1) HH |
| **Maximum input power** | 340W |
| **Auto-ranging AC mains Input** | Yes |
| **Power factor correction** | Yes |
| **Mains input frequency range** | 50–60Hz |
| **Input voltage low range** | 90 VAC minimum |
| | 137 VAC maximum |

| Description | Specification |
|---|---|
| Input voltage high range | 180 VAC minimum |
| | 265 VAC maximum |
| Input kilovolt-amperes (kVA) approximate | 0.15 kVA minimum |
| | 0.80 kVA maximum |
| Air temperature—server on | 50.0 to 95°F (10 to 35°C) |
| | Altitude 0 to 7000 ft (0 to 2133 m) |
| Air temperature—server off | 50.0 to 109.4°F (10 to 43°C) |
| | Altitude 0 to 7000 ft (0 to 2133 m) |
| Humidity—server on or off | 8 to 80% |
| Heat emissions minimum | 341 Btus/hour |
| Heat emissions maximum | 1604 Btus/hour |
| Sound emissions—idle | 5.1 bel |
| Sound emissions—maximum | 5.3 bel |
| Cooling system | 2 fans |
| Form factor | Tower |
| Rack mounting | 4 RU standard rack mount with optional rack mount kit ordered |
| Height | 18.5 in. (455 mm) |
| Width | 6.5 in. (165 mm) |
| Depth | 17.25 in. (498 mm) |

## ORDERING INFORMATION

To place an order, visit the Cisco Direct Order page.

**Table 2.**  Ordering Information

| Product Name | Part Number |
|---|---|
| Cisco MCS 7815I-3000 hardware for Cisco CallManager | MCS-7815I-3.0-IPC1 |
| Cisco MCS 7815I-3000 hardware for Cisco IPCC Express Edition | MCS-7815I-3.0-CC1 |
| Cisco MCS 7815I-3000 hardware for Cisco IP IVR | MCS-7815I-3.0-CC1 |
| Cisco MCS 7815I-3000 hardware for Cisco Unity | MCS-7815I-3.0-ECS1 |
| Cisco MCS 7815I-3000 hardware for Cisco Unity Bridge | MCS-7815I-3.0-ECS1 |
| Spare 512 MB SDRAM DIMM | MEM-7815I-3.0-512= |
| Spare 80 GB SATA Hard Disk | HDD-7815I-3.0-80= |
| Rail kit to rack mount MCS 7815I-3000 server | RAIL-7815I-3.0= |

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**FOR MORE INFORMATION**

For more information about the Cisco Media Convergence Server 7815I-3000, visit http://www.cisco.com/en/US/products/hw/voiceapp/ps378/index.html or contact your local account representative.

**CISCO SYSTEMS**

**Corporate Headquarters**
Cisco Systems, Inc.
170 West Tasman Drive
San Jose, CA 95134-1706
USA
www.cisco.com
Tel: 408 526-4000
      800 553-NETS (6387)
Fax: 408 526-4100

**European Headquarters**
Cisco Systems International BV
Haarlerbergpark
Haarlerbergweg 13-19
1101 CH Amsterdam
The Netherlands
www-europe.cisco.com
Tel: 31 0 20 357 1000
Fax: 31 0 20 357 1100

**Americas Headquarters**
Cisco Systems, Inc.
170 West Tasman Drive
San Jose, CA 95134-1706
USA
www.cisco.com
Tel: 408 526-7660
Fax: 408 527-0883

**Asia Pacific Headquarters**
Cisco Systems, Inc.
168 Robinson Road
#28-01 Capital Tower
Singapore 068912
www.cisco.com
Tel: +65 6317 7777
Fax: +65 6317 7799

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